

CLAIMS

What is claimed is:

1. An electrochemical cell structure comprising:
 - a first fluid chamber;
 - a resilient member disposed in said first fluid chamber; and
 - an opening for permitting communication of a fluid into said first fluid chamber from one of an anode cavity and a cathode cavity.
2. The electrochemical cell structure of Claim 1 including an anode cavity and a cathode cavity wherein said one of said anode cavity and said cathode cavity is in fluid communication with said first fluid chamber through said opening.
3. The electrochemical cell structure of Claim 2 wherein said resilient member urges said anode cavity and said cathode cavity together.
4. The electrochemical cell structure of Claim 2 including an electrochemically conductive medium sandwiched between said anode cavity and said cathode cavity.
5. The electrochemical cell of Claim 1 wherein said resilient member comprises a metallic spring.

6. The electrochemical cell of Claim 5 wherein said spring comprises a wave spring having a first peak, a second peak and a valley spaced between said first peak and said second peak.
7. The electrochemical cell of Claim 6 wherein said spring comprises a first wave spring and a second wave spring, said first wave spring concentric with said second wave spring.
8. The electrochemical cell of Claim 1 wherein said resilient member is electrically conductive.
9. The electrochemical cell of Claim 1 wherein said anode cavity has a first area and said cathode cavity has a second area, said first area in fluid communication with said second area.
10. The electrochemical cell structure of Claim 9 wherein said resilient member is biased to urge said first area toward said second area.
11. The electrochemical cell of Claim 1 including a second resilient member positioned within a second fluid chamber, said second fluid chamber in fluid communication with said one of an anode cavity and a cathode cavity and said first resilient member in fluid communication with the other of said one of an anode cavity and a cathode cavity.

12. The electrochemical cell of Claim 11 wherein said first resilient member is biased to apply a first spring force in a first direction and said second resilient member is biased to apply a second spring force in a second direction opposite to said first direction.

13. An electrochemical cell structure:
 - a spring; and
 - a spring frame for positioning said spring relative to one of an anode cavity and a cathode cavity wherein said spring frame has at least one spring frame opening for permitting fluid through said spring frame from said one of an anode cavity and a cathode cavity.
14. The electrochemical cell of Claim 13 wherein said spring frame comprises a first member spaced from a second member, said first member and said second member defining said at least one spring frame opening.
15. The electrochemical cell of Claim 14 wherein said first member and said second member extend generally radially from a center of said spring frame.
16. The electrochemical cell of Claim 13 wherein said spring comprises a wave spring having a first peak, a second peak and a valley spaced between said first peak and said second peak.
17. The electrochemical cell of Claim 13 wherein said spring comprises a first circular spring and a second circular spring, said first circular spring generally concentric with said second circular spring.
18. The electrochemical cell of Claim 13 wherein said spring and said spring frame are electrically conductive.

19. An electrochemical cell comprising:
 - an anode cavity and a cathode cavity;
 - an electrochemically conductive medium spaced between said anode cavity and said cathode cavity;
 - a first resilient member for urging said anode cavity and said cathode cavity together, said first resilient member disposed in a first chamber in fluid communication with said anode cavity;
 - a second resilient member for urging said anode cavity and said cathode cavity together, said second resilient member disposed in a second chamber in fluid communication with said cathode cavity; and
 - wherein said first resilient member applies a first spring force in a first direction and said second resilient member applies a second spring force in a second direction opposite to said first direction.